

N. MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING WELL	XXXXX	REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Hobbs, New Mexico March 31 1937.

Place

Date

OIL CONSERVATION COMMISSION,
 SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____
Gulf Oil Corpn - Gypsy Divn. B. Whitmire Well No. #3 in the _____
 Company or Operator Lease
NW/4 of Sec. 8, T. 20S, R. 37E., N. M. P. M.,
Monument Field, Lea. County.

The dates of this work were as follows: _____

Notice of intention to do the work was [was not] submitted on Form C-102 on _____ 19____
 and approval of the proposed plan was [was not] obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

March 29th 1937 acidized with 1,000 gallons.

Test before acid:- No test flowed in pits to clean up and wend dead.

Test after acid:- Flowed 49 1/2 barrels in 3 hours 16 1/2 barrels first hour 1,803,000 gas.

Witnessed by <u>Lester LeFavour</u>	<u>Gulf</u>	<u>Foreman.</u>
<u>Jake Smith</u>	<u>Chemical Process</u>	<u>Treater.</u>
Name	Company	Title

Subscribed and sworn before me this _____

2nd day of April, 19 37

Notary Public

My commission expires Feb 8 1941

I hereby swear or affirm that the information given above is true and correct.

Name CCC

Position District Supt.

Representing Gulf Oil Corpn - Gypsy Divn.

Company or Operator

Address Hobbs, New Mexico.

Remarks:

Name

Title

Introduction

What is a vector space?

A vector space is a collection of objects (vectors) that can be added together and multiplied by scalars, and which satisfy certain properties. The most common example is the set of all real numbers, which can be added and multiplied by real numbers.

Properties of a vector space

- Closure: If u and v are vectors in the space, then $u + v$ and cu (for any scalar c) are also in the space.
- Associativity: $(u + v) + w = u + (v + w)$ and $(cu) + v = c(u + v)$.
- Commutativity: $u + v = v + u$ and $cu = uc$.
- Identity: There is a zero vector 0 such that $u + 0 = u$ and a scalar 1 such that $1u = u$.
- Inverse: For every vector u , there is a vector $-u$ such that $u + (-u) = 0$.
- Distributivity: $c(u + v) = cu + cv$ and $(c + d)u = cu + du$.

These properties are satisfied by the set of all real numbers, and by many other sets of objects.

Examples of vector spaces

- The set of all real numbers, \mathbb{R} .
- The set of all n -dimensional real vectors, \mathbb{R}^n .
- The set of all n -dimensional complex vectors, \mathbb{C}^n .
- The set of all n -dimensional real matrices, $M_n(\mathbb{R})$.
- The set of all n -dimensional complex matrices, $M_n(\mathbb{C})$.

These are all examples of vector spaces, and they all satisfy the properties listed above.

• The set of all real numbers, \mathbb{R} , is a vector space over \mathbb{R} .

• The set of all n -dimensional real vectors, \mathbb{R}^n , is a vector space over \mathbb{R} .

• The set of all n -dimensional complex vectors, \mathbb{C}^n , is a vector space over \mathbb{C} .

Why are vector spaces important?

- They provide a framework for understanding many physical phenomena.

• They are used in many areas of mathematics, including physics, engineering, and computer science.

• They are used in many areas of science, including physics, chemistry, and biology.

• They are used in many areas of engineering, including electrical engineering, mechanical engineering, and civil engineering.

• They are used in many areas of computer science, including artificial intelligence, data science, and computer graphics.

Conclusion

- Vector spaces are a fundamental concept in mathematics and science.

• They provide a framework for understanding many physical phenomena.